

DERWENT- 1998-143463

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DERWENT- 199813

WEEK:

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TITLE: Dimensionally stable resin impregnated paper - consisting of nonwoven aramid sheet used as friction material for automatic transmissions, torque converters, brake bands, synchronisers, and wet wheel brakes

PATENT-ASSIGNEE: ANONYMOUS [ANON]

PRIORITY-DATA: 1998RD-0406020 (January 20, 1998)

PATENT-FAMILY:

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APPLICATION-DATA:

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INT-CL (IPC): F16D000/00

ABSTRACTED-PUB-NO: RD 406020A

BASIC-ABSTRACT:

A dimensionally stable resin impregnated paper consisting of 30-70 wt.% of a nonwoven aramid sheet can be used as the friction material for automatic transmissions, torque converters, brake bands, synchronizers, and wet wheel brakes. These sheets offer wear resistance, high temperature stability, and durability. The nonwoven aramid sheet is comprised of 80-95 wt.% aramid floc and 5-20 wt.% aramid binder with a basis weight between 5 and 15 oz/sq.yd. and a density between 0.2 and 0.6 g/cc. A specific example of a friction paper or friction lining material useful with clutches and brakes is

disclosed in EP-637698-A1. Generic friction materials of this type are made from fibrous base materials and are impregnated with phenolic, silicon, or polyimide resins to be used as facings on clutch and brake surfaces. The fibrous base material is normally formed on a paper machine and is composed of (1) fibrous components, (2) specialty ingredients (including friction modifiers), and (3) fillers. The fibrous components can include almost any fiber, including cotton, cellulose, carbon, aramid and glass. Known particulate fillers and specialty ingredients and their particle size ranges include diatomaceous earth (10 to 30 micrometers), activated carbon (20 to 40 micrometers), and graphite (20 to 50 micrometers).

CHOSEN- Dwg.0/0
DRAWING:

TITLE- DIMENSION STABILISED RESIN IMPREGNATE PAPER CONSIST
TERMS: NONWOVEN ARAMID SHEET FRICTION MATERIAL AUTOMATIC
 TRANSMISSION TORQUE CONVERTER BRAKE BAND SYNCHRONISATION
 WET WHEEL BRAKE

DERWENT-CLASS: A23 A88 L02 Q63

CPI-CODES: A05-F05; A12-H10; A12-S05G; L02-F;

ENHANCED- Polymer Index [1.1] 018 ; P0226 P0282*R D01 D18 F30
POLYMER- Polymer Index [1.2] 018 ; P1445*R F81 Si 4A
INDEXING: Polymer Index [1.3] 018 ; P1081*R F72 D01

 Polymer Index [1.4] 018 ; ND01 ; K9892 ; K9416 ; Q9999
 Q7614 Q7603 ; Q9999 Q7625 Q7603 ; N9999 N7192 N7023 ;
 Q9999 Q7818*R ; B9999 B5367 B5276 ; K9449

 Polymer Index [1.5] 018 ; A999 A419 ; A999 A782 ;
 S9999 S1070*R

 Polymer Index [1.6] 018 ; G2891 D00 Si 4A ; A999 A419
 ; S9999 S1070*R

 Polymer Index [1.7] 018 ; R05086 D00 D09 C* 4A ; A999
 A419 ; S9999 S1070*R

 Polymer Index [1.8] 018 ; G2766 D00 O* 6A Si 4A ;
 R01669 D00 D09 C* 4A ; R01778 D00 D09 C* 4A ; A999
 A237 ; S9999 S1456*R

 Polymer Index [2.1] 018 ; R24078 R01852 G3634 G3623

D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29
F26 F34 H0293 P0599 ; A999 A419 ; A999 A782 ; S9999
S1070*R

Polymer Index [2.2] 018 ; R01852*R G3634 D01 D03 D11
D10 D23 D22 D31 D42 D50 D76 D86 F24 F29 F26 F34 H0293
P0599 G3623 ; A999 A419 ; A999 A782 ; S9999 S1070*R

Polymer Index [3.1] 018 ; P0737*R P0635 H0293 F70 D01
D18

Polymer Index [3.2] 018 ; Q9999 Q6791

Polymer Index [4.1] 018 ; P0737*R P0635 H0293 F70 D01
D18 ; S9999 S1183 S1161 S1070 ; S9999 S1581 ; A999
A419 ; A999 A782 ; S9999 S1070*R

Polymer Index [4.2] 018 ; B9999 B4842 B4831 B4740

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